Andrew Schechtman-Rook
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EXPERIENCE

Senior Manager, Data Science 2018-Present
Capital One

- Core maintainer for the longest-lived, most successful internal data science tool in the company, used in production models by dozens of data scientists across lines of business.
- Owned the design, implementation, and upkeep of the DS Technical Interview, a key interview given to every data science candidate in the US.
- Guided ongoing development of the core credit card valuations model scoring platform, delivering regular releases of new and updated models while improving the robustness and maintainability of platform infrastructure.
- Led technical development of model monitoring tools, mentoring three junior data scientists to deliver a maintainable package on time and to spec.
- Deployed the first cloud-based credit card underwriting model in the company via a dockerized Python API, with an estimated incremental value of $35MM per year.

Manager, Data Science 2016-2018
Capital One

- Built a Python library to facilitate the creation of robust, production-ready data analysis pipelines, saving hundreds of hours of R&D effort across multiple production models.
- Led development of a prototype automated machine learning model deployment framework for cloud-based applications, influencing the development direction for the company-wide credit card application processing platform.

Principal Data Scientist 2014-2016
Capital One Labs

- Implemented a novel approach to deliver internal technical trainings, providing over 5000 hours of classes with no instructors.
- Programmed and deployed an interactive course completion dashboard using Flask and dc.js to provide progress reports to individual students as well as company leadership.

Data Science Fellow 2014
The Data Incubator

- Formulated a model to predict flight delay times based on historical airline on-time arrivals.
- Created a web interface to provide interactive itinerary input and visualizations to intuitively display model results.

TECHNICAL SKILLS

Programming: Python (numpy, scipy, pandas, sklearn, xgboost, matplotlib), shell scripting
Databases, Orchestration, Web Design: Flask, MySQL/PostgreSQL, Prefect, Snowflake
Cloud Computing/Devops: AWS, Docker, CircleCI, Jenkins
Operating Systems: Linux, Mac OSX
Data Analysis: Parallel and distributed computing, machine learning, nonlinear optimization

EDUCATION

PhD, Astronomy, University of Wisconsin-Madison December 2013
MS, Astronomy, University of Wisconsin-Madison June 2009
BS, Astronomy, Case Western Reserve University May 2007